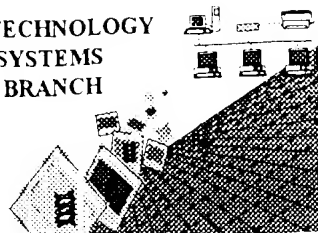


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



1644
P#13
RECEIVED

NOV 27 2002

TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/661,992A
Source: 1/620
Date Processed by STIC: 11/21/2002-

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/661,992 A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☒ Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☐ Misaligned Amino
Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☐ Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ Variable Length
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ PatentIn 2.0
"bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ Skipped Sequences
(OLD RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ Skipped Sequences
(NEW RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 ☐ Use of n's or Xaa's
(NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☐ Invalid <213>
Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ☐ Use of <220>
Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ☐ PatentIn 2.0
"bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 15:11:11

Input File: A:\237 sequence listing.asc

Output Set: N:\CRF4\11212002\I661992A.raw

1 <11> APPLICANT: Scheinlinger, Friedrich
2 Kerschbaumer, Randolph
3 Falkner, Falko-Guenter
4 Berner, Friedrich
W--> 8 <120> *mandatory name identified and ignore needed*
W--> 10 <130> FILE REFERENCE:
12 <140> CURRENT APPLICATION NUMBER: US 09/661,992A
C--> 14 <141> CURRENT FILING DATE: 2000-09-14 *mandatory name identified and ignore*
14 <142> NUMBER OF SEQ ID NOS: 106
16 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

18 <210> SEQ ID NO: 1
19 <211> LENGTH: 26
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: Description of the artificial sequence:primer
26 <400> SEQUENCE: 1
E--> 27 ctcaattttc ttgtccacct tgggtgc *26 (global issue) identified*
28 26
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 26
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
36 <220> FEATURE:
37 <223> OTHER INFORMATION: Description of the artificial sequence:primer
39 <400> SEQUENCE: 2
E--> 40 ctcgattctc ttgatcaact cagtct *same issue*
41 26
44 <210> SEQ ID NO: 3
45 <211> LENGTH: 24
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Description of the artificial sequence:primer
52 <400> SEQUENCE: 3
E--> 53 tggaatgggc acatgcagat ctct *same*
54 24
57 <210> SEQ ID NO: 4
58 <211> LENGTH: 24

Does Not comply
Correction Needed

Page 1-13

1 on
Error
Summary
Sheet

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:14:33

Input Set : A:\237 sequence listing.asc
Input Set : N:\CRF4\11212002\I661992A.raw

66 <210> TYPE: DNA
67 <213> ORGANISM: Artificial Sequence
68 <212> FEATURE:
69 <223> OTHER INFORMATION: Description of the artificial sequence:primer
70 <400> SEQUENCE: 4

E--> 66 ctcatctctg ttgaagctct tgac

71 4
763 <210> SEQ ID NO: 50
764 <211> LENGTH: 17
765 <212> TYPE: DNA
766 <213> ORGANISM: Artificial Sequence
769 <220> FEATURE:
769 <223> OTHER INFORMATION: Description of the artificial sequence:primer
771 <400> SEQUENCE: 50

E--> 772 catgccatga ctgcgggccc agccggccat ggccsaggtg marctgcags agtcwgg

773 17
776 <210> SEQ ID NO: 51
777 <211> LENGTH: 16
778 <212> TYPE: DNA
779 <213> ORGANISM: Artificial Sequence
781 <220> FEATURE:
782 <223> OTHER INFORMATION: Description of the artificial sequence:primer
784 <400> SEQUENCE: 51

E--> 785 gtccctcgcaa ctgcgggccc gccggccatg gccgaggtgc agcttcagga gtcagg

786 56
789 <210> SEQ ID NO: 52
790 <211> LENGTH: 56
791 <212> TYPE: DNA
792 <213> ORGANISM: Artificial Sequence
794 <220> FEATURE:
795 <223> OTHER INFORMATION: Description of the artificial sequence:primer
797 <400> SEQUENCE: 52

E--> 798 gtccctcgcaa ctgcgggccc gccggccatg gccgatgtgc agcttcagga gtcagg

799 56
802 <210> SEQ ID NO: 53
803 <211> LENGTH: 56
804 <212> TYPE: DNA
805 <213> ORGANISM: Artificial Sequence
807 <220> FEATURE:
808 <223> OTHER INFORMATION: Description of the artificial sequence:primer
810 <400> SEQUENCE: 53

E--> 811 gtccctcgcaa ctgcgggccc gccggccatg gccaggtgc agctgaagsa gtcagg

812 56
815 <210> SEQ ID NO: 54
816 <211> LENGTH: 56
817 <212> TYPE: DNA
818 <213> ORGANISM: Artificial Sequence
820 <220> FEATURE:
821 <223> OTHER INFORMATION: Description of the artificial sequence:primer

*Same
line*



RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02
TIME: 11:11:11Input Seq : A:\237 sequence listing.asc
Output Seq : N:\CRF4\11212002\I661992A.raw

824 gtcctcgcaa ctgcggccca gccggccatg gccgaggtgc agctgcarca rtctgg
825 36
826 <210> SEQ ID NO: 55
827 <211> LENGTH: 56
828 <212> TYPE: DNA
829 <213> ORGANISM: Artificial Sequence
830 <220> FEATURE:
831 <223> OTHER INFORMATION: Description of the artificial sequence:primer
832 <400> SEQUENCE: 55

837 gtcctcgcaa ctgcggccca gccggccatg gccgaggtgc arctgcagca gyctgg
838 36
839 <210> SEQ ID NO: 56
840 <211> LENGTH: 56
841 <212> TYPE: DNA
842 <213> ORGANISM: Artificial Sequence
843 <220> FEATURE:
844 <223> OTHER INFORMATION: Description of the artificial sequence:primer
845 <400> SEQUENCE: 56

850 gtcctcgcaa ctgcggccca gccggccatg gccgaggtga agctggtgga rtctgg
851 56
852 <210> SEQ ID NO: 57
853 <211> LENGTH: 56
854 <212> TYPE: DNA
855 <213> ORGANISM: Artificial Sequence
856 <220> FEATURE:
857 <223> OTHER INFORMATION: Description of the artificial sequence:primer
858 <400> SEQUENCE: 57

863 gtcctcgcaa ctgcggccca gccggccatg gccgaggttc agcttcagca gtctgg
864 56
865 <210> SEQ ID NO: 58
866 <211> LENGTH: 56
867 <212> TYPE: DNA
868 <213> ORGANISM: Artificial Sequence
869 <220> FEATURE:
870 <223> OTHER INFORMATION: Description of the artificial sequence:primer
871 <400> SEQUENCE: 58

876 gtcctcgcaa ctgcggccca gccggccatg gccgaagtgc agctgktgga gwctgg
877 56
878 <210> SEQ ID NO: 59
879 <211> LENGTH: 56
880 <212> TYPE: DNA
881 <213> ORGANISM: Artificial Sequence
882 <220> FEATURE:
883 <223> OTHER INFORMATION: Description of the artificial sequence:primer
884 <400> SEQUENCE: 59

889 gtcctcgcaa ctgcggccca gccggccatg gccagatcc agttgctgca gtctgg
890 56
891 <210> SEQ ID NO: 60

name
J

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:47:10

Input Seq : A:\237 sequence listing.asc

Output Seq: N:\CRF4\11212002\I661992A.raw

902 <210> LENGTH: 60
903 <211> TYPE: DNA
904 <213> ORGANISM: Artificial Sequence
905 <220> FEATURE:
906 <223> OTHER INFORMATION: Description of the artificial sequence:primer
907 <400> SEQUENCE: 60

E--> 902 accgccagag gcgcgcccac ctgaaccgcc tccacctgag gagacggtga ccgtggtccc
903 60

E--> 904 ttggccccc

905 60
906 <210> SEQ ID NO: 61
907 <211> LENGTH: 60
908 <212> TYPE: DNA
909 <213> ORGANISM: Artificial Sequence
910 <220> FEATURE:
911 <223> OTHER INFORMATION: Description of the artificial sequence:primer
912 <400> SEQUENCE: 61

E--> 917 accgccagag gcgcgcccac ctgaaccgcc tccacctgag gagacggtga ccgtggtccc
918 60

919 <210> SEQ ID NO: 62
920 <211> LENGTH: 60
921 <212> TYPE: DNA
922 <213> ORGANISM: Artificial Sequence
923 <220> FEATURE:
924 <223> OTHER INFORMATION: Description of the artificial sequence:primer
925 <400> SEQUENCE: 62

E--> 930 accgccagag gcgcgcccac ctgaaccgcc tccacctgag gagactgtga gagtgggtgcc
931 60

932 <210> SEQ ID NO: 63
933 <211> LENGTH: 60
934 <212> TYPE: DNA
935 <213> ORGANISM: Artificial Sequence
936 <220> FEATURE:
937 <223> OTHER INFORMATION: Description of the artificial sequence:primer
938 <400> SEQUENCE: 63

E--> 943 accgccagag gcgcgcccac ctgaaccgcc tccacctgca gagacagtga ccagagtccc
944 60

945 <210> SEQ ID NO: 64
946 <211> LENGTH: 60
947 <212> TYPE: DNA
948 <213> ORGANISM: Artificial Sequence
949 <220> FEATURE:
950 <223> OTHER INFORMATION: Description of the artificial sequence:primer
951 <400> SEQUENCE: 64

E--> 956 accgccagag gcgcgcccac ctgaaccgcc tccacctgag gagacggtga ctgaggttcc
957 60

958 <210> SEQ ID NO: 65
959 <211> LENGTH: 60
960 <212> TYPE: DNA

Handwritten: Done
↓

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:16:16

Input File : A:\237 sequence listing.asc

Output File: N:\CRF4\11212002\I661992A.raw

2.1.1.1 ORGANISM: Artificial Sequence

2.1.1.2 FEATURE:

2.1.1.3 OTHER INFORMATION: Description of the artificial sequence:primer

2.1.1.4 SEQUENCE: 60

E--> 969 ggttcagatg ggcgcgcctc tggcgggtggc ggatcggaca ttgagctcac ccagtctcca

1142 <210> SEQ ID NO: 78

1143 <211> LENGTH: 74

1144 <212> TYPE: DNA

1145 <213> ORGANISM: Artificial Sequence

1146 <214> FEATURE:

1147 <215> OTHER INFORMATION: Description of the artificial sequence:mychis t

1148 <400> SEQUENCE: 79

E--> 1151 ggccgcagaa caaaaactca tctcagaaga ggatctgaat ggggcggcac atcaccatca

1152 60

E--> 1153 ccatacctaa taag

1154 74

1155 <210> SEQ ID NO: 80

1156 <211> LENGTH: 74

1157 <212> TYPE: DNA

1158 <213> ORGANISM: Artificial Sequence

1159 <214> FEATURE:

1160 <215> OTHER INFORMATION: Description of the artificial sequence:mychis

1161 <400> SEQUENCE: 80

E--> 1166 aattottatt agtgatggtg atggtgatgt gccgcccat tcagatcctc ttctgagatg

1167 60

E--> 1168 agtttttgtt ctgc

1169 74

1172 <210> SEQ ID NO: 81

1173 <211> LENGTH: 726

1174 <212> TYPE: DNA

1175 <213> ORGANISM: Artificial Sequence

1176 <214> FEATURE:

1177 <215> OTHER INFORMATION: Description of the artificial sequence:scFv region

1178 <400> SEQUENCE: 81

E--> 1181 gaggtgaagc tgggtggagtc tggacctgag ctgaagaagc ctggagagac agtcaagatc

1182 60

E--> 1183 tcctgcaagg cttctgggta tatcttcaca aactatggaa tgaactgggt gaagcaggct

1184 120

E--> 1185 ccaggaaagg gtttaaagtg gatgggctgg ataaacacct aactggaga gccaacatat

1186 180

E--> 1187 gctgatgact tcaagggaag gtttgcttc tctttggaaa cctctgocag cactgcctat

1188 240

E--> 1189 ttgcagatca acaacctcaa aaatgaggac acggctacat attctgtgc attatatggt

1190 300

E--> 1191 aactccccta aggggtttgc ttactggggc caagggactc tggctactgt ctctgcagg

1192 360

E--> 1193 ggaggcgtt cagggtggcg cgcctctggc ggtggcggat cggatattca gatgacacag

1194 420

RAW SEQUENCE LISTING

PATENT APPLICATION N: US/09/661,992A

DATE: 11/21/02

TIME: 1:43:00

Input Seq : A:\237 sequence listing.asc

Output Seq : N:\CRF4\11212002\I661992A.raw

E--> 1195 tctcccaaat tctgtcttgt atcagcagga gacagggtta ccataacctg caaggccagt
1196 450

E--> 1197 cagagtgtga gtaatgatgt agcttggtac caacagaagc cggggcagtc tcttaaacta
1198 547

E--> 1199 ctgatgtact atgcatocaa tcgctacact ggagtcacctg atcgcttcac tggcagtggg
1199 644

E--> 1201 tatgggacgg atttcacttt caccatcagc actgtgcagg ctgaagacct ggcagtttat
1202 740

E--> 1203 ttctgtcagc aggattatgg ctctctctcc acgttcggag ggggcaccaa gctggaaatt
1204 837

E--> 1205 aaacgg
1206 934

1207 <210> SEQ ID NO: 83
1208 <211> LENGTH: 747
1209 <212> TYPE: DNA
1210 <213> ORGANISM: Artificial Sequence
1211 <214> FEATURE:
1212 <215> OTHER INFORMATION: Description of the artificial sequence: scFv region
1213 <400> SEQUENCE: 83

E--> 1276 gaagtgcagc tgggtggagtc tgggggaggc ctagtgaagc ctggagggtc cctgaaactc
1277 60

E--> 1278 tctgtgcag cctctggatt cactttcagt acctatacca tgtcttgggt tcgccagact
1279 120

E--> 1280 ccggagaaga ggctggagtg ggtcgcaacc attagtagtg gtggtagtta cacctactat
1281 180

E--> 1282 ccagacagtg tgaggggccg attcaccatc tccagagaca atgccaagaa caccctgtac
1283 240

E--> 1284 ctgcaaatga gcagtctgaa gtctgaggac acagccatgt attactgtac aagagatggg
1285 300

E--> 1286 ggacacgggt acggtagtag ctttgactac tggggccaag gcaccactct cacagtctcc
1287 360

E--> 1288 tcaggtggag gcggttcagg tgggcgcgcc totggcgggt gcggatcgca aattgtgctc
1289 420

E--> 1290 acccagtctc cactctccct gcctgtcagt cttggagatc aagcctccat ctcttgcaga
1291 480

E--> 1292 tctagtcaga gcattgtaca tagtaatgga aacacctatt tagaatggta cctgcagaaa
1293 540

E--> 1294 ccaggccagt ctccaaagct cctgatctac aaagtttcca accgattttc tggggtccca
1295 600

E--> 1296 gacaaattca gtggcagtg atcagggaca gatttcacac tcaagatcag cagagtggag
1297 660

E--> 1298 gctgaggatc tgggagttaa ttactgcttt caaggttcac atgttccgtg gacgttcggt
1299 720

E--> 1300 ggaggcacca agctggaaat caaacgg
1301 747

1457 <210> SEQ ID NO: 87
1458 <211> LENGTH: 747
1459 <212> TYPE: DNA
1460 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING
PATENT APPLICATION N: US/09/661,992A

DATE: 11/11/02
TIME: 11:15:10

Input Set : A:\237 sequence listing.asc
Output Set : N:\CRF4\11212002\I661992A.raw

1460 <11> FEATURE:
1461 <113> OTHER INFORMATION: Description of the artificial sequence:scFv region
1462 <400> SEQUENCE: 89

E--> 1466 gaggtgcagc ttcaggagtc agggggaggc ttagtgaagc ctggaggggtc cctgaaactc
1467 120
E--> 1468 tcctgtgcag cctctggatt catttttagt agttatacca tgtcttgggt tcgccagact
1469 120
E--> 1470 ccggagaaga ggctggagtg ggtcgcaacc attagtagtg gtggtagttc cacctactat
1471 120
E--> 1472 ccagacagtg tgaagggcgc attcaccatc tccagagaca atgccaagaa caccctgtac
1473 120
E--> 1474 ctgcaaatga gcagtctgaa gtctgaggac acagccatgt atcaactgtac aagagagggg
1475 120
E--> 1476 ggtgggttatt acgtcaactg gtacttcgat gtctggggcg caggcaccac tctcacagtc
1477 120
E--> 1478 tcctcaggtg gaggcggttc aggtggggcg gcctctggcg gtggcgggac ggacattgag
1479 120
E--> 1480 ctacncagtc ctccagcttc tttggctgtg tctctagggc agagggccac catatcctgc
1481 120
E--> 1482 agagccagtg aaagtgttga tagttatggc aagagtttta tgcactggta ccagcagaaa
1483 120
E--> 1484 ccagggcagc caccctaaact cctcatctat cgtgcaccca acctagaatc tgggatccct
1485 120
E--> 1486 gccaggttca gtggcagtggt gtctaggaca gaattcacc caccattaa tcctgtggag
1487 120
E--> 1488 gctgatgatg ttgcnaccta ttactgtcag caaagtaatg aggatcccct cacgttcggt
1489 120
E--> 1490 gctgggacca gactggaaat aaaacgg
1491 120

1552 <210> SEQ ID NO: 89
1553 <211> LENGTH: 2199
1554 <12> TYPE: DNA
1555 <113> ORGANISM: Artificial Sequence
1557 <120> FEATURE:
1558 <123> OTHER INFORMATION: Description of the artificial sequence:scFv region
1560 <400> SEQUENCE: 89

E--> 1561 atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgcggc ccagccggcc
1562 60
E--> 1563 atggcggagg tgaagctggt ggagctctgg ggagccttag tgaagcctgg agggtccttg
1564 120
E--> 1565 aaactctcct gtgcagcctc tggattcact ttcagtagct ataccatgtc ttgggttcgc
1566 120
E--> 1567 cagactccgg agaagaggct ggagtgggtc gcaaccatta gtagtgngg tagttccacc
1568 120
E--> 1569 tactatccag acagtgtgaa gggccgattc accatctcca gagacaatgc caagaacacc
1570 120
E--> 1571 ctgtacctgc aaatgagcag tctgaggtct gaggacacag ccatgtatta ctgtacaaga
1572 120
E--> 1573 gaggggggtg gtttcaccgt caactggtac ttcgatgtct ggggcgcagg aacctcagtc

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02
TIME: 11:01:00

Input File : A:\237 sequence listing.asc
Output File : N:\CRF4\11212002\I661992A.raw

1574 400
E--> 1575 accgtctcct caggtggagg cggttcaggt gggcgcgcct ctggcgggtg cggatcggac
1576 400
E--> 1577 attgtgtgta cacagtctcc agcttctttg gctgtgtctc tagggcagag ggccaccata
1578 400
E--> 1579 tcctgcagag ccagtgaag tgttgatagt tatggctata attttatgca ctggtatcag
1580 400
E--> 1581 cagataccag gacagccacc caaactctc atctatcgtg catccaacct agagtctggg
1582 400
E--> 1583 atccctgcc a ggttcagtg cagtgggtct aggacagact tcacctcac cattaatcct
1584 400
E--> 1585 gtggaggctg atgatgttg aacctattac tgcagcaaa gtaatgagga tccgctcacg
1586 400
E--> 1587 ttcggtactg ggaccagact ggaaataaaa cgggcggcgc cagcccgggc accagaaatg
1588 400
E--> 1589 cctgttctg aaaaccgggc tgctcagggc gatattactg caccgcggcg tgctcgccgt
1590 400
E--> 1591 ttaacgggtg atcagactgc cgtctgcgt gattctctta gcgataaacc tgcaaaaaat
1592 400
E--> 1593 attattttgc tgattggcga tgggatgggg gactcggaaa ttactgccgc acgtaattat
1594 400
E--> 1595 gccgaagggt cgggcggcct ttttaaagg atagatgcct taccgcttac cgggcaatac
1596 400
E--> 1597 actcactatg cgctgaataa aaaaaccggc aaaccggact acgtcaccga ctcggtgca
1598 400
E--> 1599 tcagcaaccg cctggtcaac cgggtgtcaa acctataac gcgcgctggg cgtcgatatt
1600 400
E--> 1601 cagcaaaaag atcacccaac gattctggaa atggcaaaa cgcaggtct ggcgaccggt
1602 400
E--> 1603 aacgttttcta ccgcagagtt gcaggatgcc acgcccgtg cgtggtggc acatgtgacc
1604 400
E--> 1605 tcgcgcaaat gctacggtcc gagcgcgacc agtgaaaaat gtccgggtaa cgctctggaa
1606 400
E--> 1607 aaaggcggaa aaggatcgat taccgaacag ctgcttaac ctcgtgccga cgttacgctt
1608 400
E--> 1609 ggcggcggcg caaaaacctt tgctgaaac gcaaccgctg gtgaatggca gggaaaaacg
1610 400
E--> 1611 ctgctgaac aggcacaggc gcgtggttat cagttggtga gcgatgctgc ctactgaat
1612 400
E--> 1613 tcggtgacgg aagcgaatca gcaaaaaccc ctgcttgccc tgtttgctga cggcaatatg
1614 400
E--> 1615 ccagtgcgct ggctaggacc gaaagcaacg taccatggca atatcgataa gccgcagtc
1616 400
E--> 1617 acctgtacgc caaatccgca acgtaatgac agtgtaccaa ccctggcgca gatgaccgac
1618 400
E--> 1619 aaagccattg aattgttgag taaaaatgag aaaggctttt tcctgcaagt tgaaggtgag
1620 400
E--> 1621 tcaatcgata aacaggatca tgctgcgaat ccttggtggc aaattggcga gacggtcgat
1622 400

mini

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:05:10

Input File : A:\237 sequence listing.asc

Output File : N:\CRF4\11212002\I661992A.raw

E--> 1623 ctogatgaag ccgtacaacg ggcgctggaa ttcgctaaaa aggagggtaa cacgctggtc
1624 1800

E--> 1625 atagtcaccg ctgatcacgc ccacgccagc cagattgttg cgccggatac caaagctccg
1626 1800

E--> 1627 ggccctaccc aggcgctaaa taccaaagat ggcgcagtga tggatgatgag ttacgggaac
1628 1800

E--> 1629 tccgaagagg attcacaaga acataccggc agtcagttgc gtattgcggc gtatggcccg
1630 2100

E--> 1631 catgccgcca atgttggttg actgaccgac cagaccgatc tcttctacac catgaaagcc
1632 2100

E--> 1633 gctctggggg atatgcaca ccatcaccat caccattaa
1634 2100

1785 <210> SEQ ID NO: 21
1786 <211> LENGTH: 996
1787 <212> TYPE: DNA
1788 <213> ORGANISM: Artificial Sequence
1790 <215> FEATURE:
1791 <218> OTHER INFORMATION: Description of the artificial sequence:scfv region
1793 <400> SEQUENCE: 91

E--> 1794 atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgcggc ccagccggcc
1795 60

E--> 1796 atggcggagg tgaagctggt ggagtctggg ggaggcttag tgaagcctgg agggtccttg
1797 120

E--> 1798 aaactctctt gtgcagcctc tggattcaact ttcagtagct ataccatgtc ttgggttcgc
1799 180

E--> 1800 cagactccgg agaagaggct ggagtgggtc gcaaccatta gtagtgngg tagttccacc
1801 240

E--> 1802 tactatccag acagtgtgaa gggccgattc accatctcca gagacaatgc caagaacacc
1803 300

E--> 1804 ctgtacctgc aatgagcag tctgaggctc gaggacacag ccatgtatta ctgtacaaga
1805 360

E--> 1806 gaggggggtg gtttcaccgt caactggtac ttcgatgtct ggggcgcagg aacctcagtc
1807 420

E--> 1808 accgtctctt caggtggagg cggttcaggt gggcgcgcct ctggcggttg cggatcggac
1809 480

E--> 1810 attgtgctga cacagnttcc agcttctttg gctgtgtctc tagggcagag ggccaccata
1811 540

E--> 1812 tcntgcagag ccagtgaag tgttgatagt tatggctata attttatgca ctggtatcag
1813 600

E--> 1814 cagataccag gacagccacc caaactcctc atctatcgtg catccaacct agagtctggg
1815 660

E--> 1816 atccctgcca ggttcagtgg cagtgggtct aggacagact tcaccctcac cattaatcct
1817 720

E--> 1818 gtggaggctg atgatgttgc aacctattac tgtcagcaaa gtaatgagga tccgctcagc
1819 780

E--> 1820 ttcggtactg ggaccagact ggaaataaaa cgggcggccg caccgaagcc ttccactccg
1821 840

E--> 1822 cccgggtctt cccgtatgaa acagctggaa gacaaagtag aggagctcct tagcaagaac
1823 900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:40:00

Input File : A:\237 sequence listing.asc
Output File : N:\CRF4\11212002\I661992A.raw

E--> 1824 taccatctag aaaacgaggt agctcgtctg aaaagcttg ttggtgaacg tgggtgtcac
1825 60

E--> 1826 catcaccatc accattaa
1827 60

1828 <210> SEQ ID NO: 49
1829 <210> LENGTH: 666
1830 <210> TYPE: DNA
1831 <210> ORGANISM: Artificial Sequence
1832 <210> FEATURE:
1833 <210> OTHER INFORMATION: Description of the artificial sequence: scFv region.
1834 <400> SEQUENCE: 69

E--> 2306 atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgcggc ccagccggcc
2307 60

E--> 2308 atggccgagg tgaagctggt ggagtctggg ggaggcttag tgaagcctgg agggtccttg
2309 120

E--> 2310 aaactctcct gtgcagcctc tggattcaact ttcagtagct ataccatgtc ttgggttcgc
2311 180

E--> 2312 cagactccgg agaagaggct ggagtgggtc gcaaccatta gtagtgngg tagttccacc
2313 240

E--> 2314 tactatccag acagtgtgaa gggccgattc accatctcca gagacaatgc caagaacacc
2315 300

E--> 2316 ctgtacctgc aatgagcag tctgaggtct gaggacacag ccatgtatta ctgtacaaga
2317 360

E--> 2318 gaggggggtg gtttcaccgt caactggtac ttgatgtct ggggcgcagg aacctcagtc
2319 420

E--> 2320 accgtctcct caggtggagg cggttcaggt gggcggcct ctggcgggtg cggatcggac
2321 480

E--> 2322 attgtgctga cacagtctcc agcttctttg gctgtgtctc tagggcagag ggccaccata
2323 540

E--> 2324 tcctgcagag ccagtgaag tgttgatagt tatggctata attttatgca ctggtatcag
2325 600

E--> 2326 cagataccag gacagccacc caaactcctc atctatcgtg catccaacct agagtctggg
2327 660

E--> 2328 atccctgcca ggttcagtgg cagtgggtct aggacagact tcacctcac cattaatcct
2329 720

E--> 2330 gtggaggctg atgatgttg aacctattac tgtcagcaaa gtaatgagga tccgctcacg
2331 780

E--> 2332 ttcggtactg ggaccagact ggaaataaaa cgggcggccg cagaacaaaa actcatctca
2333 840

E--> 2334 gaagaggatc tgaatggggc ggcacatcac catcaccatc actaataa
2335 888

Sequences exist throughout
the file. Check all
minor errors.

See following pages for more details

<210> 87
<211> 747
<212> DNA
<213> Artificial
Sequence

<220>

<223> Description of the artificial sequence:scFv
region

<400> 87

gaggtgcagc ttcaggagtc agggggagggc ttagtgaagc
ctggaggggc cctgaaactc 60
tcctgtgcag cctctggatt catttttagt agttatacca
tgtcttgggt tcgccagact 120
ccggagaaga ggctggagtg ggtcgcaacc attagtagtg
gtggtagttc caccactat 180
ccagacagtg tgaaggggcg attcaccatc tccagagaca
atgccaaaga caccctgtac 240
ctgcaaataa gcagtctgaa gtctgaggac acagccatgt
atcactgtac aagagagggg 300
ggtggttatt acgtcaactg gtacttcgat gtctggggcg
caggcaccac tctcacagtc 360
tcctcaggtg gaggcgggtc aggtggggcg gcctctggcg
gtggcgggac ggacattgag 420
ctcagncagt ctccagcttc tttggctgtg tctctagggc
agagggccac catatcctgc 480
agagccagtg aaagtgttga tagttatggc aagagtttta
tgcactggta ccagcagaaa 540
ccagggcagc cacccaaact cctcatctat cgtgcatcca
acctagaatc tgggatccct 600
gccaggttca gtggcagtggt gtctaggaca gacttcaccc
tcaccattaa tcctgtggag 660
gctgatgatg ttgcnaccta ttactgtcag caaagtaatg
aggatccct cagtttcggt 720

besides
global "wrap"
"low"
H's are not
explained
↓
see p 13
for more
explanation

<210> 88
 <211> 249
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of the artificial sequence:scFv
 region

<400> 88
 Glu Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Lys
 Pro Gly Gly
 1 5 10
 15
 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe
 Ser Ser Tyr 20 25
 30

all
 amino
 acid
 sequence
 show the
 amino acid
 in item 1 on
 each summary
 sheet

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 11:51:17

Input File: A:\237 sequence listing.asc

Output File: N:\CRF4\11212002\I661992A.raw

Gene Information

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:0; N Pos. 40, 41

Seq#:19; N Pos. 278

Seq#:41; N Pos. 225, 497, 143

Seq#:92; Xaa Pos. 100

Seq#:99; N Pos. 228

Seq#:108; Xaa Pos. 1, 3, 14, 15

*These sequences
show the above in*

[illegible]

Figure 1 is a schematic representation of the experimental design. It shows a sequence of events: 'Stimulus presentation', 'Response', 'Feedback', and 'Inter-trial interval'. The sequence is repeated for multiple trials.

NAME: N:\CRF4\11212002\I661992A.raw

file://C:\CRF4\Outhold\Vsr1661992A.htm

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/661,992A

DATE: 11/21/02

TIME: 1:15:17

Input Set : A:\237 sequence listing.asc

Output Set: N:\CRF4\11212002\I661992A.raw

M:234 Repeated in SeqNo=57

L:1457 M:238 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:57

L:1458 M:238 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:57

L:1459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:457

L:1459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:457

L:1461 M:234 E: No. of Bases conflict, LENGTH:Input:7 Counted:6 SEQ:57

M:234 Repeated in SeqNo=58

L:1467 M:238 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:58

L:1467 M:238 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:58

L:1467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:1457

L:1494 M:234 E: No. of Bases conflict, LENGTH:Input:6 Counted:6 SEQ:58

M:234 Repeated in SeqNo=91

L:1800 M:238 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:91

L:1800 M:238 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:91

L:1800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:180

L:1810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:461

L:1812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:547

L:1869 M:238 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:92

L:1869 M:238 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:92

L:1869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:160

L:2312 M:238 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:99

L:2312 M:238 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:99

L:2312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:180

L:2552 M:238 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:105

L:2552 M:238 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:105

L:2552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:0